

ABSTRACT OF THE DISCLOSURE

A solution is to provide a tire air pressure monitor comprising: tire air pressure sensors and transmitters
5 which are respectively annexed to tires; two receiving antennas which receive a transmitting signal from each of the transmitters; phase shifters which shift signal phases received from the receiving antennas respectively by control voltages; a synthesizer which synthesizes outputs
10 from the phase shifters; and a meter which detects an output level from the synthesizer, wherein, the two receiving antennas are arranged so that receiving phase differences between the receiving antennas as to the transmitting signal from each of the transmitters are made different,
15 the control voltages for the phase shifters are respectively obtained in advance, which maximize the output level from the synthesizer, as to respective tire mounting positions, and stores an association table relating each of the tire mounting positions to the control
20 voltages, and the control voltages are controlled so that the output level from the synthesizer is maximized with respect to a transmitting signal from any one of the tire mounting positions, and each of the tire mounting positions is identified by comparing values of the control voltages
25 thus controlled with the association table.